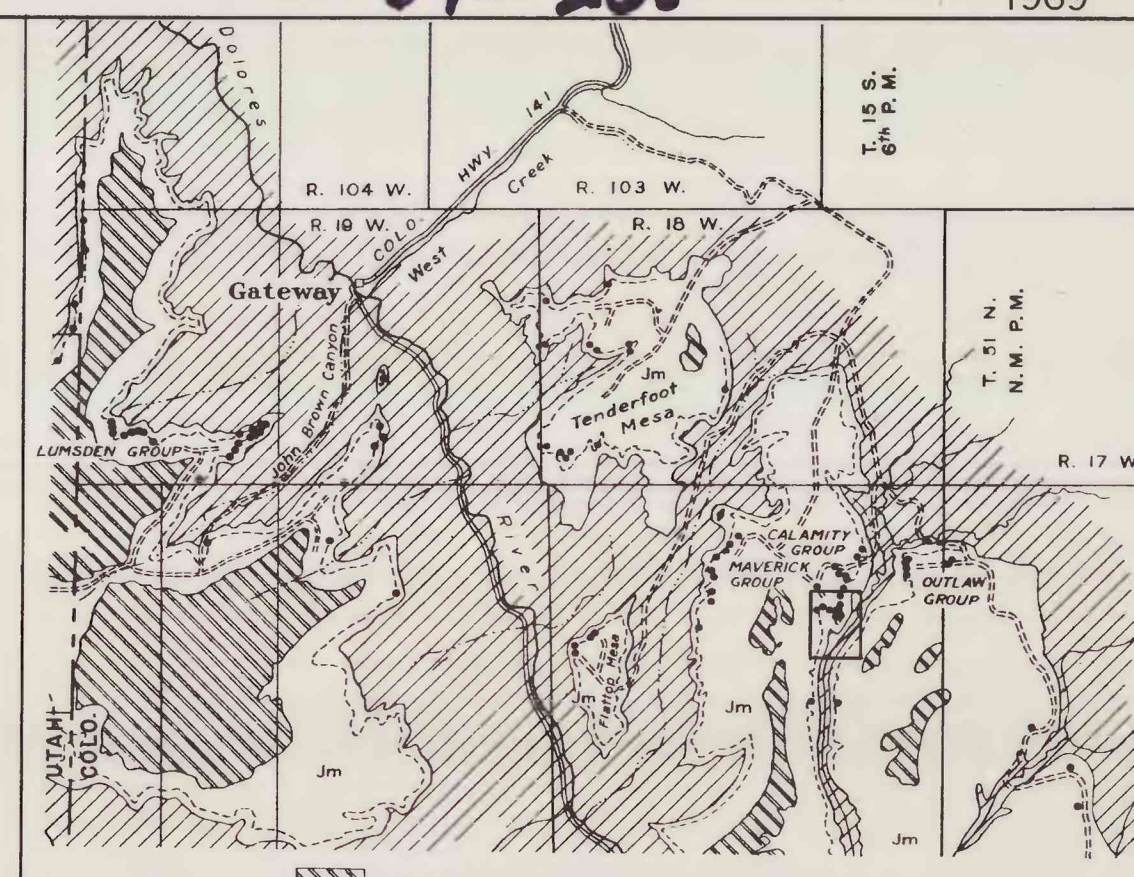


U.S. GEOLOGICAL SURVEY  
LIBRARY  
DEC 8 1969  
DENVER

N

Contour interval 10 feet  
Datum is mean sea level

Geology by H. K. Slager  
Engineering by J. I. Schumacher



EXPLANATION

- Favorability boundary in areas underlain by ore-bearing sandstone
- Axis of fossil log, roll, or well-defined elongate ore body
- - - Approximate base of ore-bearing sandstone
- - - Approximate top of ore-bearing sandstone
- Block 8: Ground underlain by carnotite-bearing rock, projected to the inferred outer edges of mineralized layers, some of which overlap and are not connected between adjacent holes, includes reserve blocks, where shown
- Area intensively drilled by mining companies, (Radium Co. of Colorado, 1921-1922 and U.S. Vanadium Co., 1950)
- Incline shaft and mine workings, (approximate outline)
- Mine shaft
- Mine dump (approximate outline)
- Privately controlled land (all other land within limits explored by drilling is controlled by U.S. Atomic Energy Commission)
- Land section corner found in the field
- Co-ordinate lines, based on U.S. Atomic Energy Commission co-ordinate system
- Diamond-drill holes, U.S. Geological Survey  
Classification based on chemical assays and radiometric logs. Numbers on caps of standpipes left in holes all have prefix CA
- Barren (contains no significant content of  $U_3O_8$  and  $V_2O_5$  by chemical assay, and registers no gamma-ray value as great as 0.05%  $eU_3O_8$ )
- Weakly mineralized (contains less than 0.10%  $U_3O_8$  and 1.0%  $V_2O_5$  by chemical assay, or registers gamma-ray values within the range from 0.05% to 0.09%  $eU_3O_8$ , or less than 1 foot thick, regardless of chemical or gamma-ray values)
- Ore-bearing (contains 0.1% or more  $U_3O_8$  or 1.0% or more  $V_2O_5$  by chemical assay, or registers gamma-ray values greater than 0.09%  $eU_3O_8$ , and 1 foot or more thick)
- Diamond-drill holes, U.S. Bureau of Mines
- Barren
- Weakly mineralized (less than 0.10%  $U_3O_8$  and 1.0%  $V_2O_5$  or less than 1 foot thick regardless of grade)
- Ore-bearing (0.10% or more  $U_3O_8$ , or 1.0% or more  $V_2O_5$ , and 1 foot or more thick)
- Diamond-drill holes are located by plane-table or tape and compass methods

U. S. Geological Survey  
OPEN FILE REPORT  
This map or illustration is preliminary  
and has not been edited or reviewed for  
conformity with Geological Survey  
standards or nomenclature.

FIGURE 3.-- MAP SHOWING LOCATION OF HOLES DRILLED BY U.S. GEOLOGICAL SURVEY IN THE SOUTHERN PART OF THE CALAMITY GROUP AREA, GATEWAY DISTRICT, MESA COUNTY, COLORADO